

First-time evaluation of ascending compared to rectangular transthoracic defibrillation waveforms in modelled out of hospital cardiac arrest

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- Experimental animals	8	<p>a. Provide details of the animals used, including species, strain, sex, developmental stage (e.g. mean or median age plus age range) and weight (e.g. mean or median weight plus weight range).</p> <p>b. Provide further relevant information such as the source of animals.</p>	Animal preparation, more detailed: Online supplement “Expanded Methods”
- Housing and husbandry	9	<p>Provide details of:</p> <p>a. Housing; type of cage or housing; bedding material; number of cage companions.</p> <p>b. Husbandry conditions (light/dark cycle, temperature, access to food and water).</p> <p>c. Welfare-related assessments and interventions that were carried out prior to, during, or after the experiment.</p>	Online Supplement “Expanded Methods”
- Sample size	10	<p>a. Specify the total number of animals used in each experiment, and the number of animals in each experimental group.</p> <p>b. Explain how the number of animals was arrived at. Provide details of any sample size calculation used.</p>	Paragraph 2 Statistical Analysis > Paragraph 1
- Allocating animals to experimental groups	11	Give full details of how animals were allocated to experimental groups, including randomisation or matching if done.	Paragraph 2, Online supplement “Expanded Methods”
- Experimental outcomes	12	Clearly define the primary and secondary experimental outcomes assessed	<p>Primary outcome “first shock success”: Measurement protocol > Paragraph 4.</p> <p>Secondary outcomes: Measurement protocol > Paragraphs 4-7.</p>

- Statistical methods	13	a. Provide details of the statistical methods used for each analysis. b. Specify the unit of analysis for each dataset (e.g. single animal, group of animals, single neuron). c. Describe any methods used to assess whether the data met the assumptions of the statistical approach.	Statistical Analysis
RESULTS			
- Baseline data	14	For each experimental group, report relevant characteristics and health status of animals (e.g. weight, microbiological status, and drug or test naïve) prior to treatment or testing.	Methods > Animal preparation > Paragraph 1
- Numbers analyzed	15	a. Report the number of animals in each group included in each analysis. Report absolute numbers (e.g. 10/20, not 50%). b. If any animals or data were not included in the analysis, explain why.	Success rates > Paragraphs 1-2, Table 4, Online supplement: Supplemental table 1
- Outcomes and estimation	16	Report the results for each analysis carried out, with a measure of precision.	Results, Tables 1-4, Online supplement: Supplemental table 1
- Adverse events	17	a. Give details of all important adverse events in each experimental group. b. Describe any modifications to the experimental protocols made to reduce adverse events.	Paragraph 4 not applicable

DISCUSSION

- Interpretation/scientific implications	18	a. Interpret the results, taking into account the study objectives and hypotheses, current theory and other relevant studies in the literature.	Throughout
		b. Comment on the study limitations including any potential sources of bias, any limitations of the animal model, and the imprecision associated with the results.	Paragraphs 1 and 4, Limitations, Conflicts of Interest
		c. Describe any implications of your experimental methods or findings for the replacement, refinement or reduction (the 3Rs) of the use of animals in research.	not applicable
- Generalisability/translation	19	Relevance to human biology.	Throughout, Limitations
- Funding	20	List all funding sources (including grant number) and the role of the funder(s) in the study.	Acknowledgements